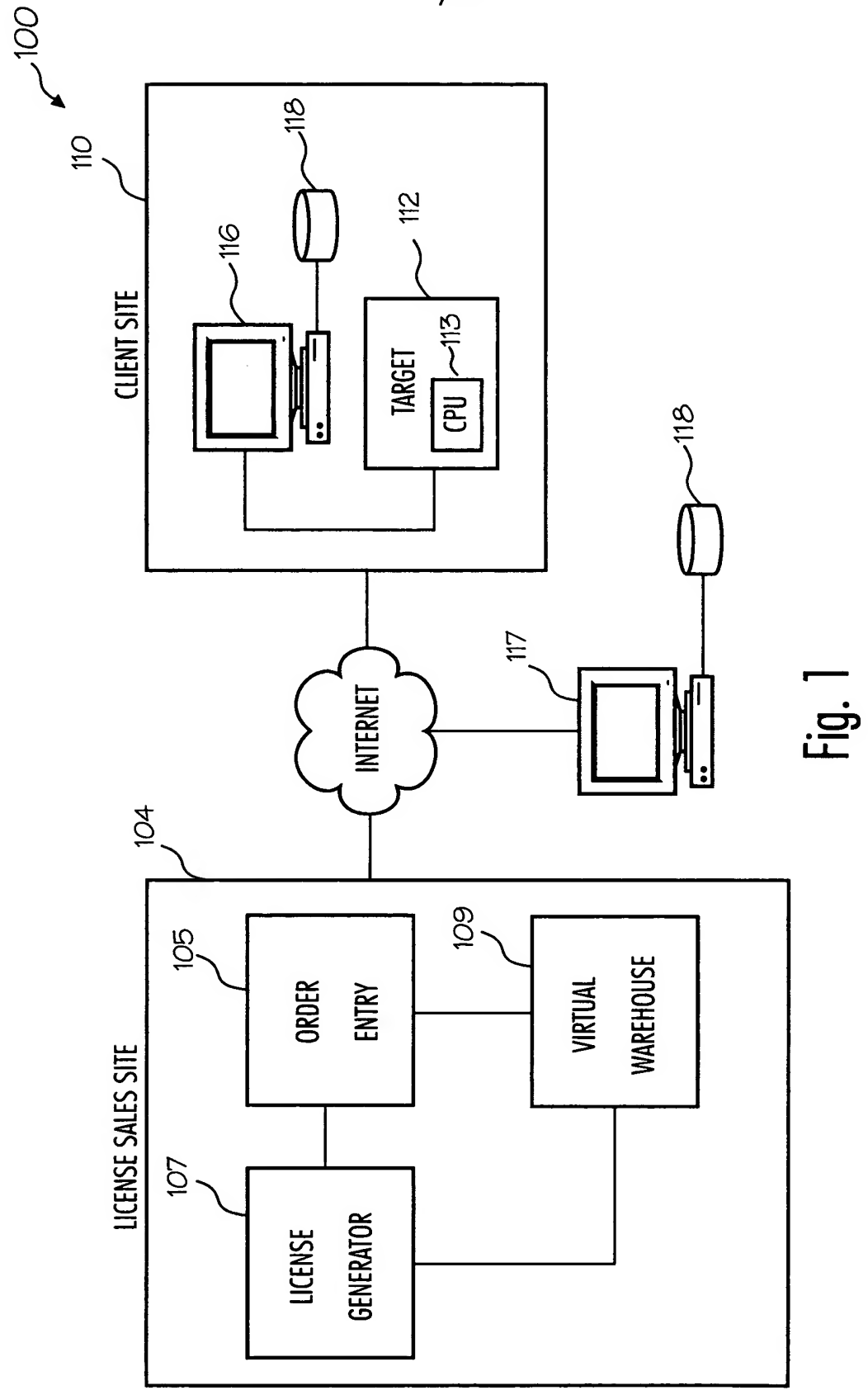
100
110
CLIENT SITE
118
116
112
TARGET
113
CPU
118
INTERNET
117
104
LICENSE SALES SITE
105
ORDER ENTRY
109
VIRTUAL WAREHOUSE
107
LICENSE GENERATOR

Fig. 1

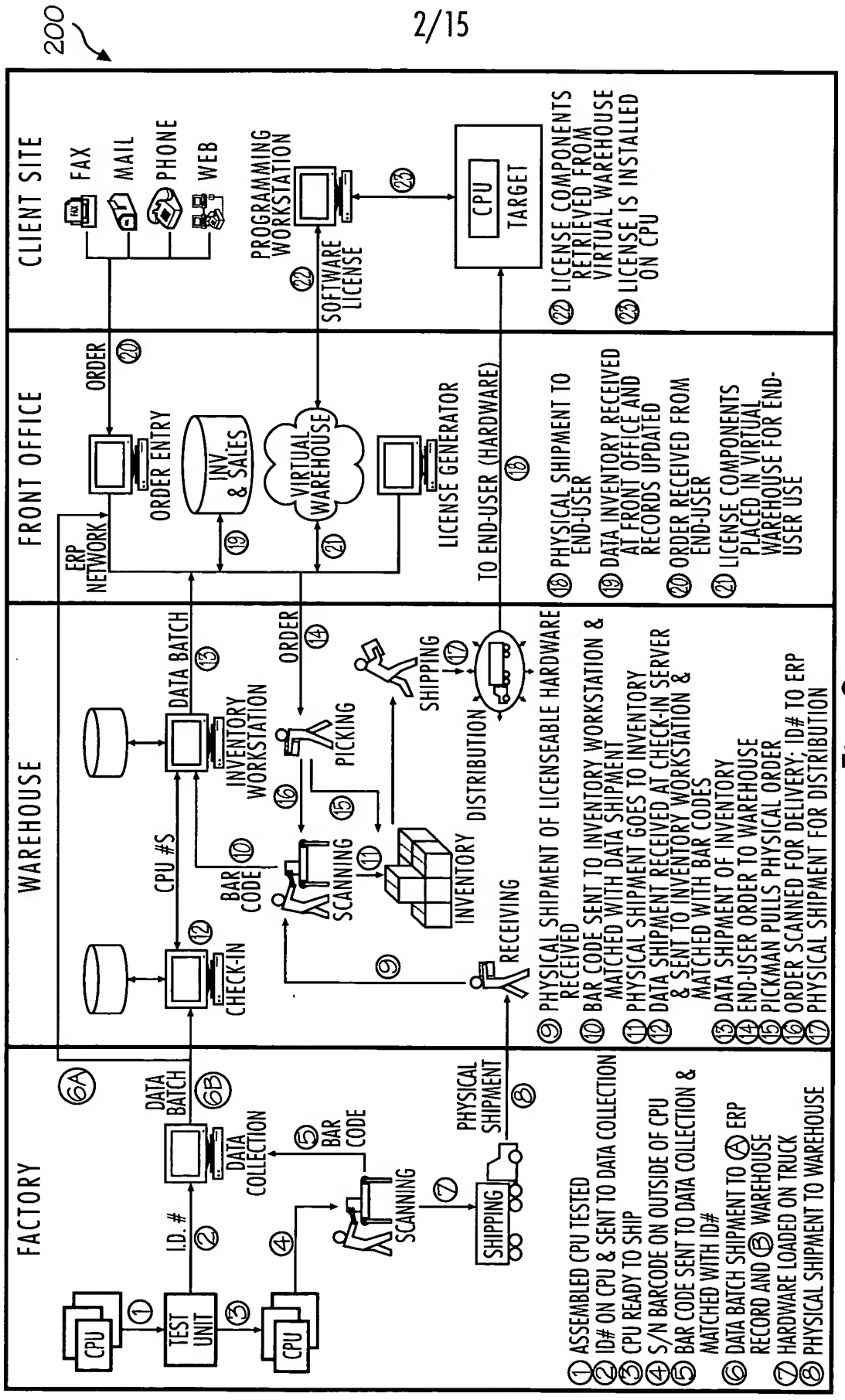
200
FACTORY
WAREHOUSE
FRONT OFFICE
CLIENT SITE
CPU
TEST UNIT
I.D. #
DATA COLLECTION
DATA BATCH
BAR CODE
SCANNING
PHYSICAL SHIPMENT
SHIPPING
RECEIVING
CHECK-IN
CPU #S
BAR CODE
SCANNING
INVENTORY WORKSTATION
DATA BATCH
PICKING
ORDER
SHIPPING
DISTRIBUTION
INVENTORY
ERP NETWORK
ORDER ENTRY
INV. & SALES
VIRTUAL WAREHOUSE
LICENSE GENERATOR
ORDER
SOFTWARE LICENSE
TO END-USER (HARDWARE)
PROGRAMMING WORKSTATION
FAX
MAIL
PHONE
WEB
CPU TARGET
1 ASSEMBLED CPU TESTED
2 ID# ON CPU & SENT TO DATA COLLECTION
3 CPU READY TO SHIP
4 S/N BARCODE ON OUTSIDE OF CPU
5 BAR CODE SENT TO DATA COLLECTION & MATCHED WITH ID#
6 DATA BATCH SHIPMENT TO A ERP RECORD AND B WAREHOUSE
7 HARDWARE LOADED ON TRUCK
8 PHYSICAL SHIPMENT TO WAREHOUSE
9 PHYSICAL SHIPMENT OF LICENSEABLE HARDWARE RECEIVED
10 BAR CODE SENT TO INVENTORY WORKSTATION & MATCHED WITH DATA SHIPMENT
11 PHYSICAL SHIPMENT GOES TO INVENTORY
12 DATA SHIPMENT RECEIVED AT CHECK-IN SERVER & SENT TO INVENTORY WORKSTATION & MATCHED WITH BAR CODES
13 DATA SHIPMENT OF INVENTORY
14 END-USER ORDER TO WAREHOUSE
15 PICKMAN PULLS PHYSICAL ORDER
16 ORDER SCANNED FOR DELIVERY; ID# TO ERP
17 PHYSICAL SHIPMENT FOR DISTRIBUTION
18 PHYSICAL SHIPMENT TO END-USER
19 DATA INVENTORY RECEIVED AT FRONT OFFICE AND RECORDS UPDATED
20 ORDER RECEIVED FROM END-USER
21 LICENSE COMPONENTS PLACED IN VIRTUAL WAREHOUSE FOR END-USER USE
22 LICENSE COMPONENTS RETRIEVED FROM VIRTUAL WAREHOUSE
23 LICENSE IS INSTALLED ON CPU

Fig. 2

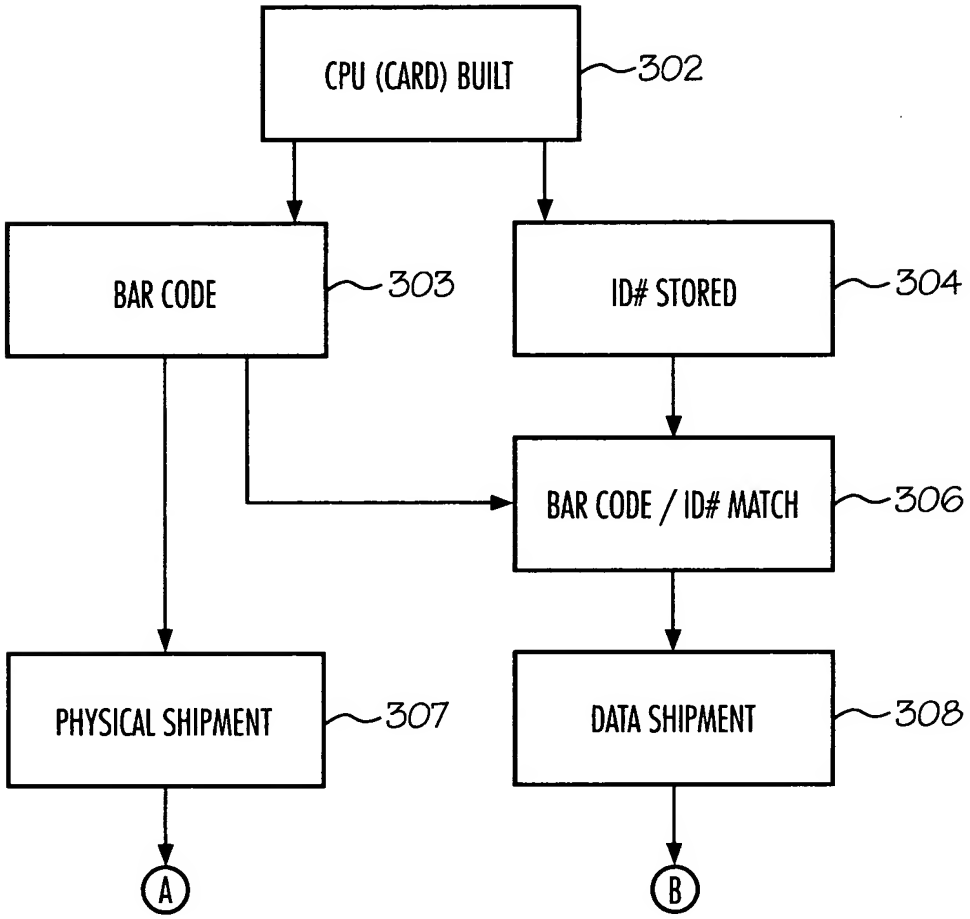
CPU (CARD) BUILT
302
BAR CODE
303
ID# STORED
304
BAR CODE / ID# MATCH
306
PHYSICAL SHIPMENT
307
DATA SHIPMENT
308
A
B

Fig. 3

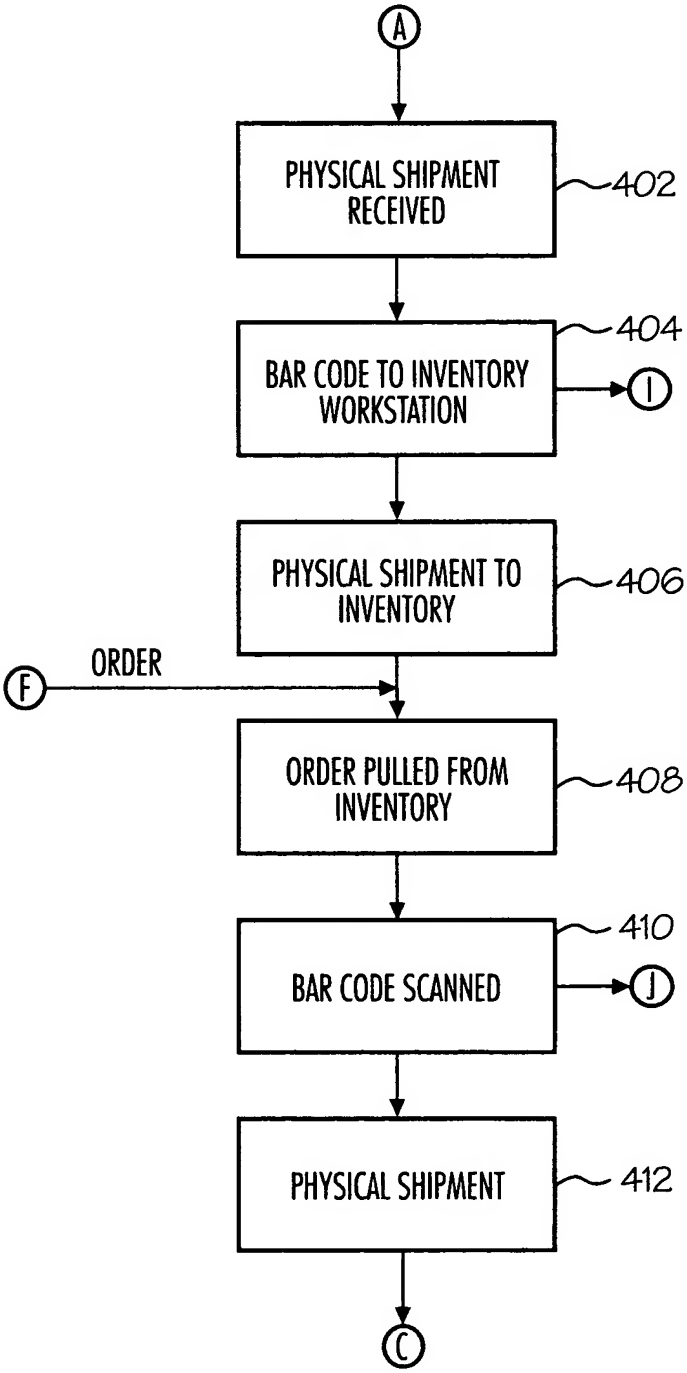
A
PHYSICAL SHIPMENT RECEIVED
402
BAR CODE TO INVENTORY WORKSTATION
404
I
PHYSICAL SHIPMENT TO INVENTORY
406
F
ORDER
ORDER PULLED FROM INVENTORY
408
BAR CODE SCANNED
410
J
PHYSICAL SHIPMENT
412
C

Fig. 4

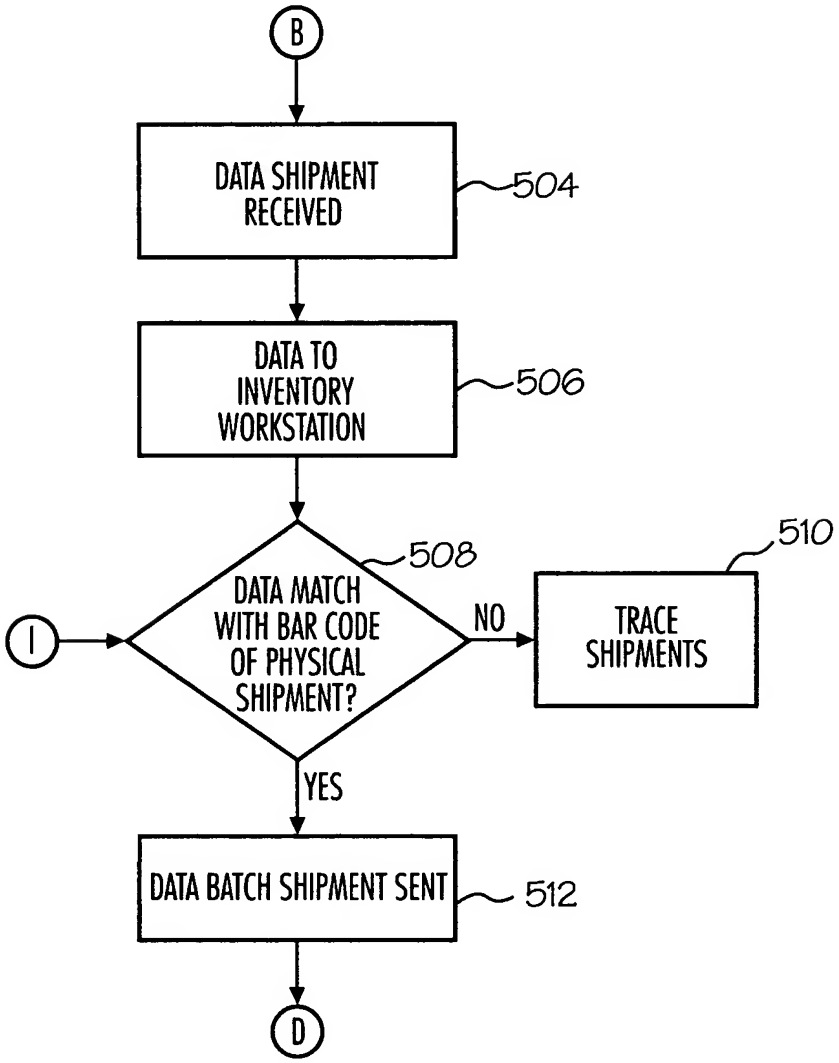
B
DATA SHIPMENT RECEIVED
504
DATA TO INVENTORY WORKSTATION
506
508
DATA MATCH WITH BAR CODE OF PHYSICAL SHIPMENT?
NO
510
TRACE SHIPMENTS
I
YES
DATA BATCH SHIPMENT SENT
512
D

Fig. 5

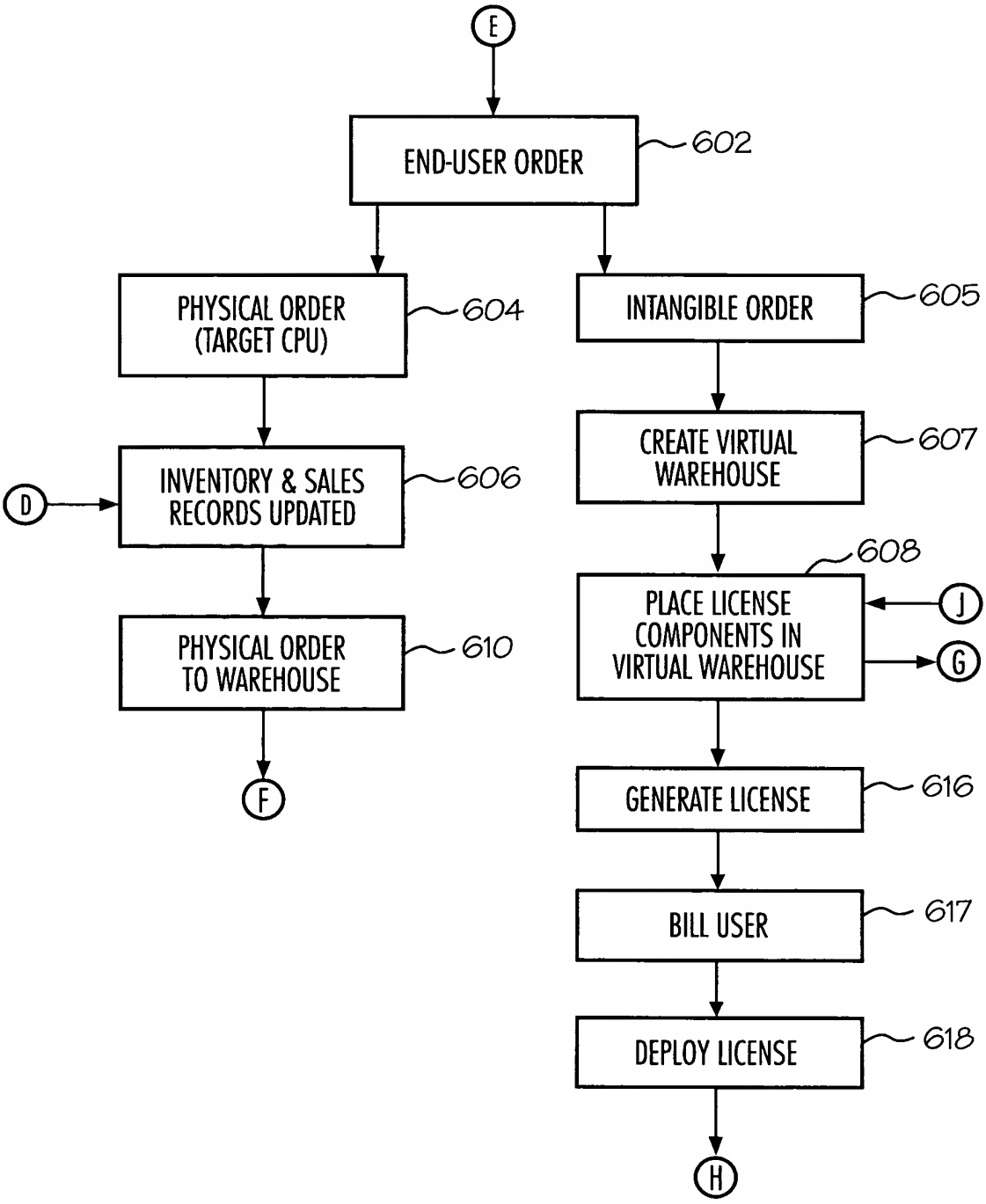
E
END-USER ORDER
602
PHYSICAL ORDER (TARGET CPU)
604
INTANGIBLE ORDER
605
D
INVENTORY & SALES RECORDS UPDATED
606
CREATE VIRTUAL WAREHOUSE
607
608
PLACE LICENSE COMPONENTS IN VIRTUAL WAREHOUSE
J
G
PHYSICAL ORDER TO WAREHOUSE
610
F
GENERATE LICENSE
616
BILL USER
617
DEPLOY LICENSE
618
H

Fig. 6

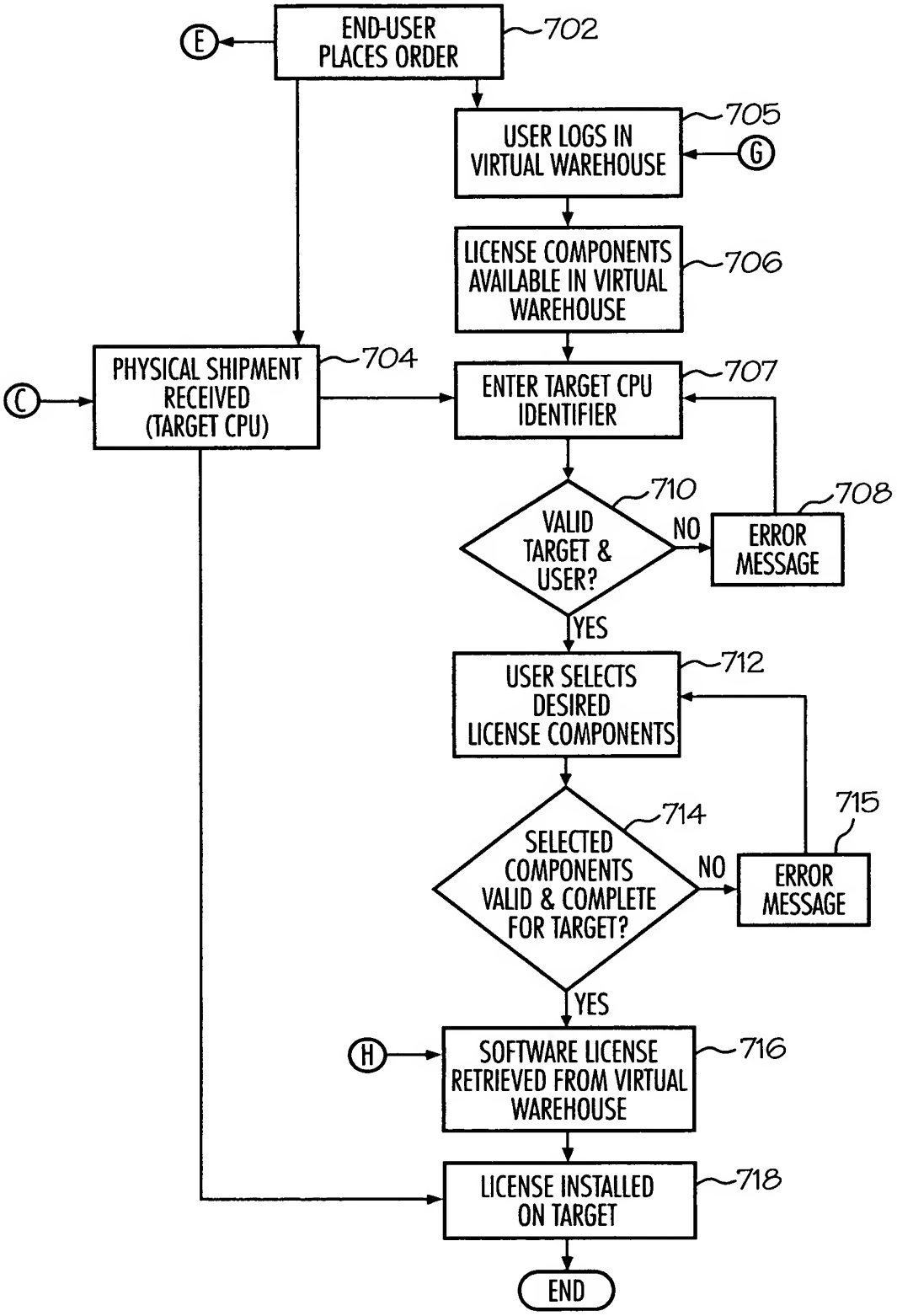
E
END-USER PLACES ORDER
702
USER LOGS IN VIRTUAL WAREHOUSE
705
G
LICENSE COMPONENTS AVAILABLE IN VIRTUAL WAREHOUSE
706
C
PHYSICAL SHIPMENT RECEIVED (TARGET CPU)
704
ENTER TARGET CPU IDENTIFIER
707
VALID TARGET & USER?
710
NO
ERROR MESSAGE
708
YES
USER SELECTS DESIRED LICENSE COMPONENTS
712
SELECTED COMPONENTS VALID & COMPLETE FOR TARGET?
714
NO
ERROR MESSAGE
715
YES
H
SOFTWARE LICENSE RETRIEVED FROM VIRTUAL WAREHOUSE
716
LICENSE INSTALLED ON TARGET
718
END

Fig. 7

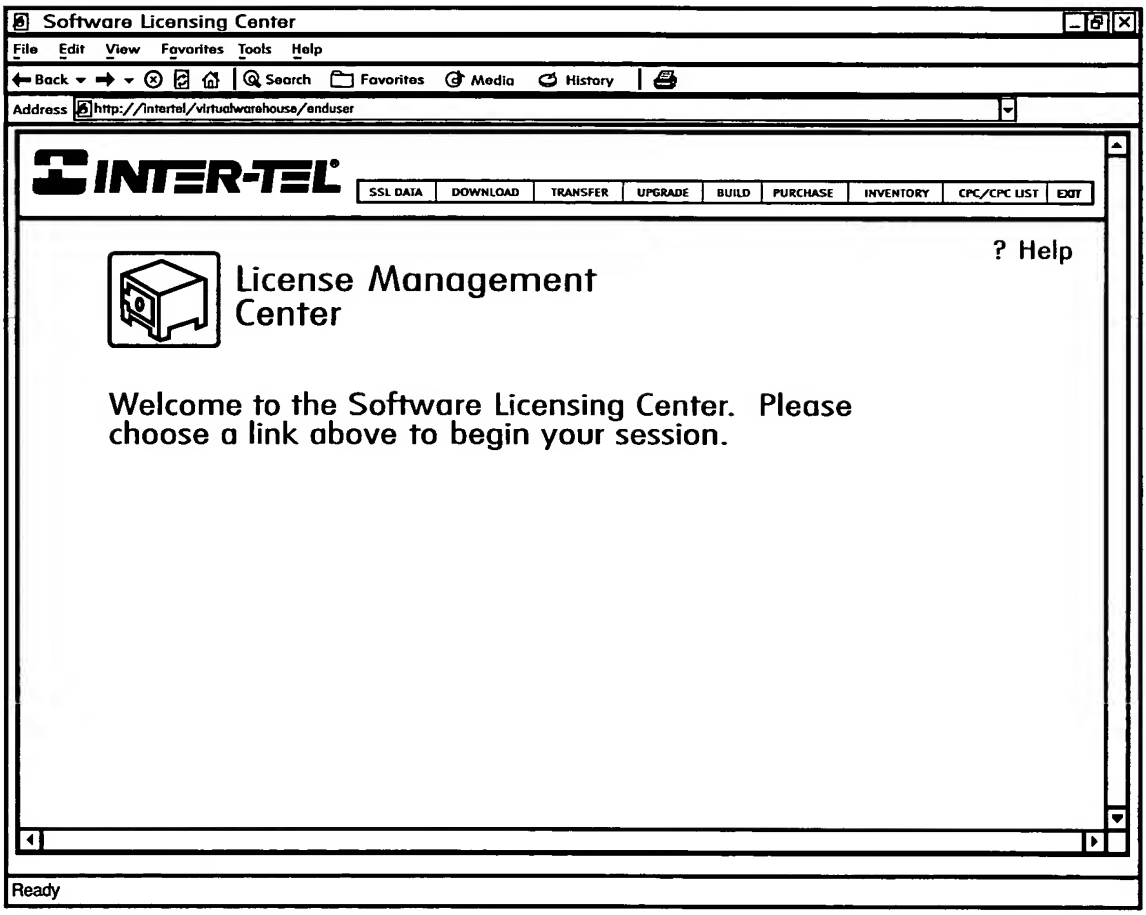

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Fig. 8

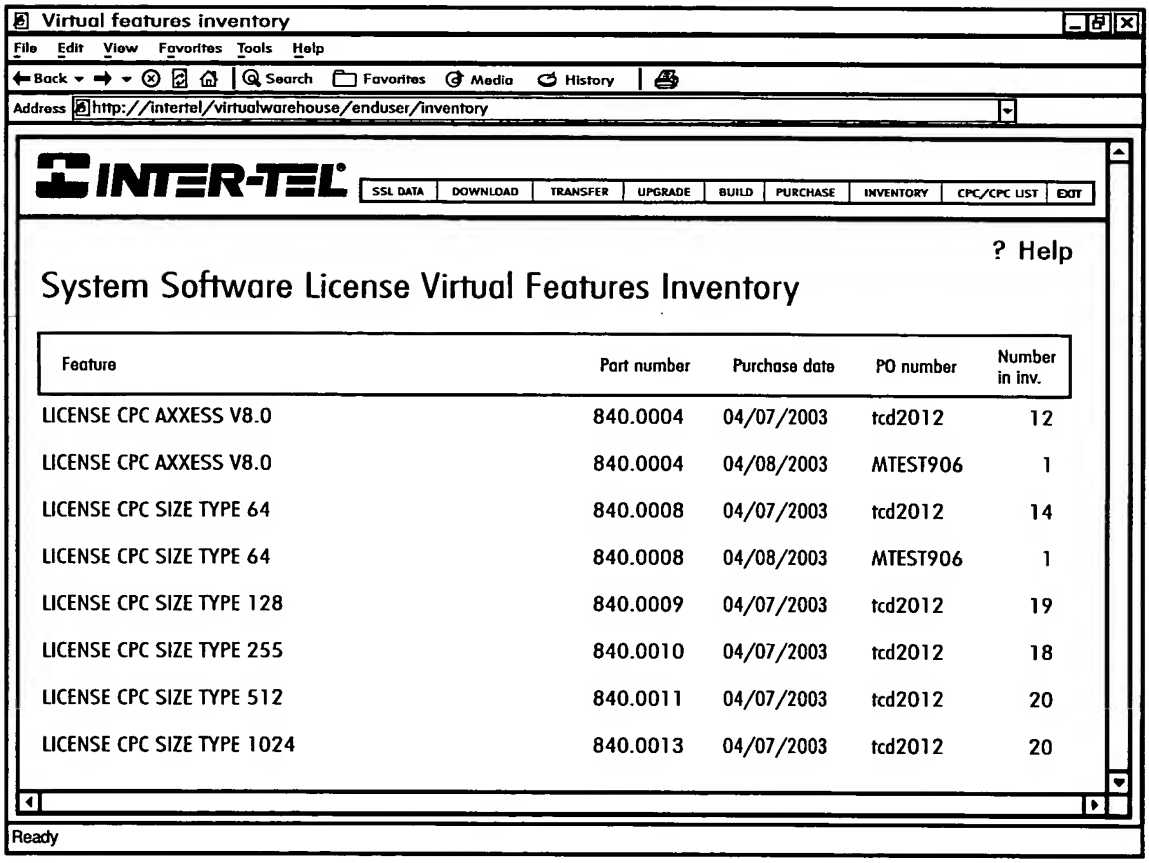

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Fig. 9

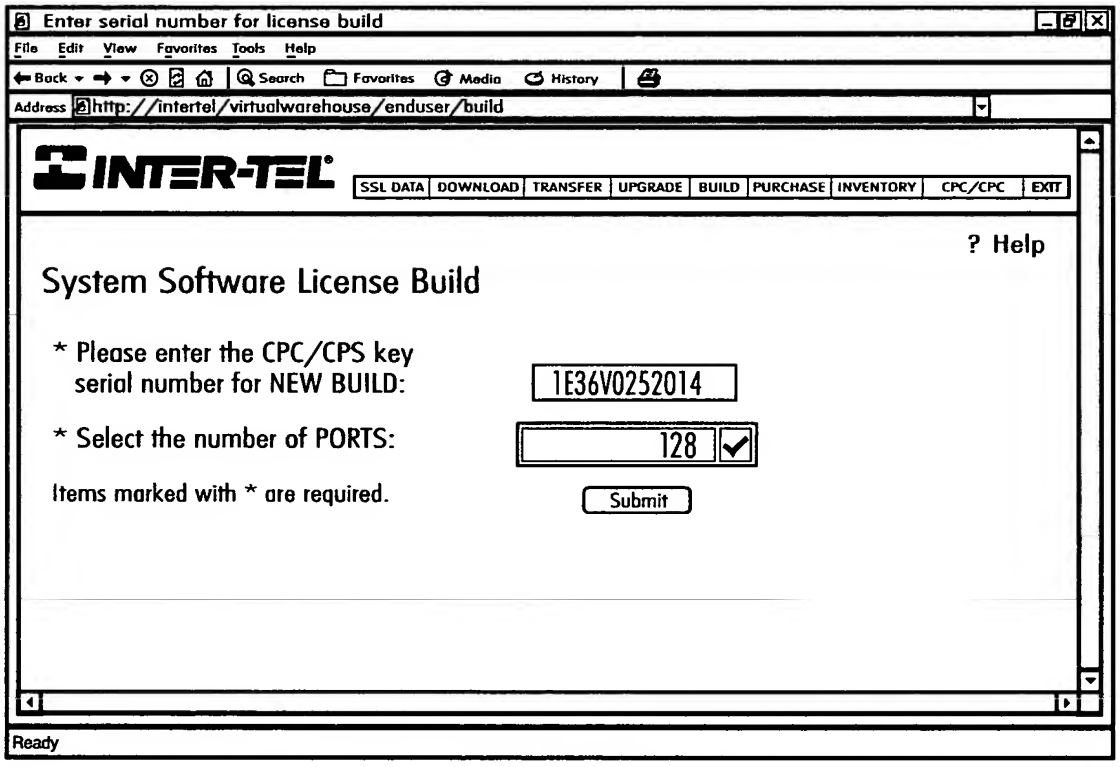

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Fig. 10

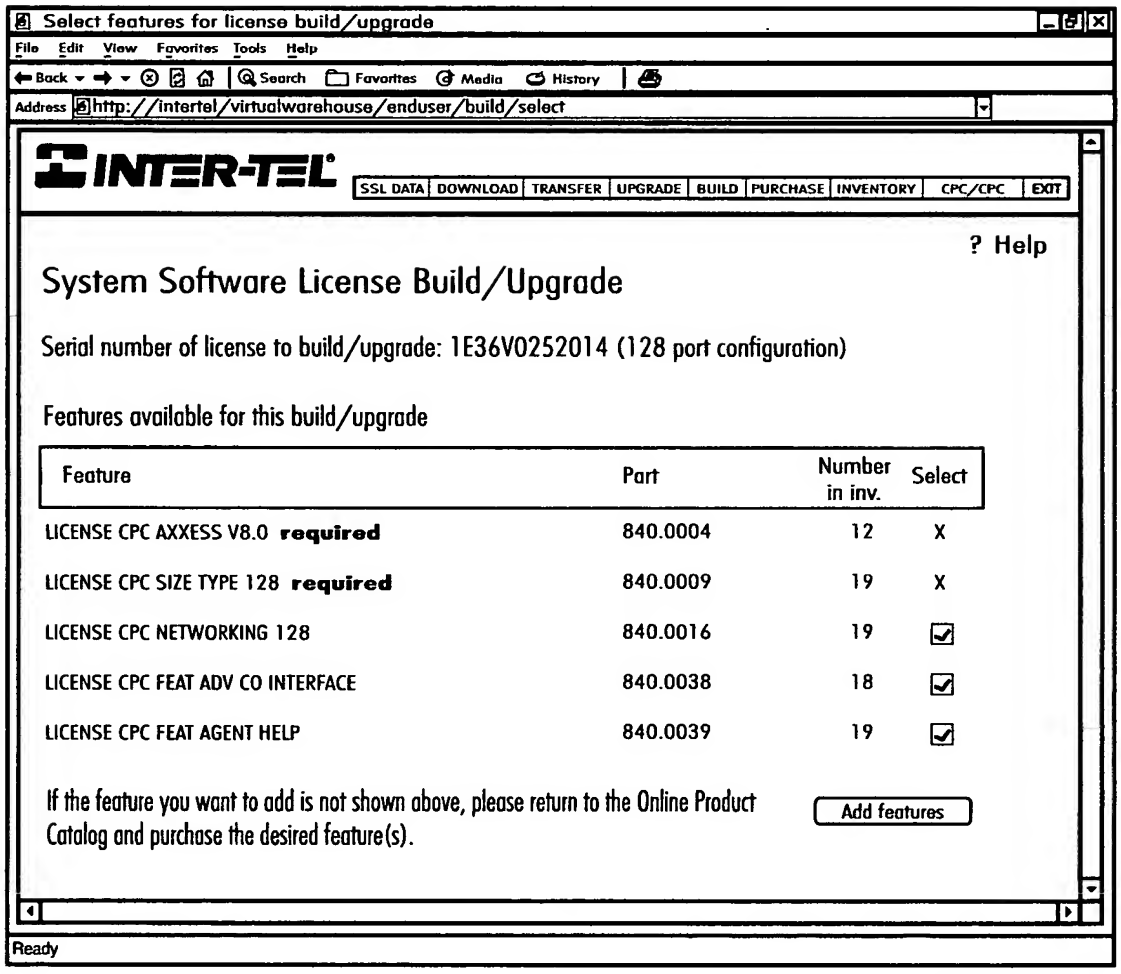

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Fig. 11

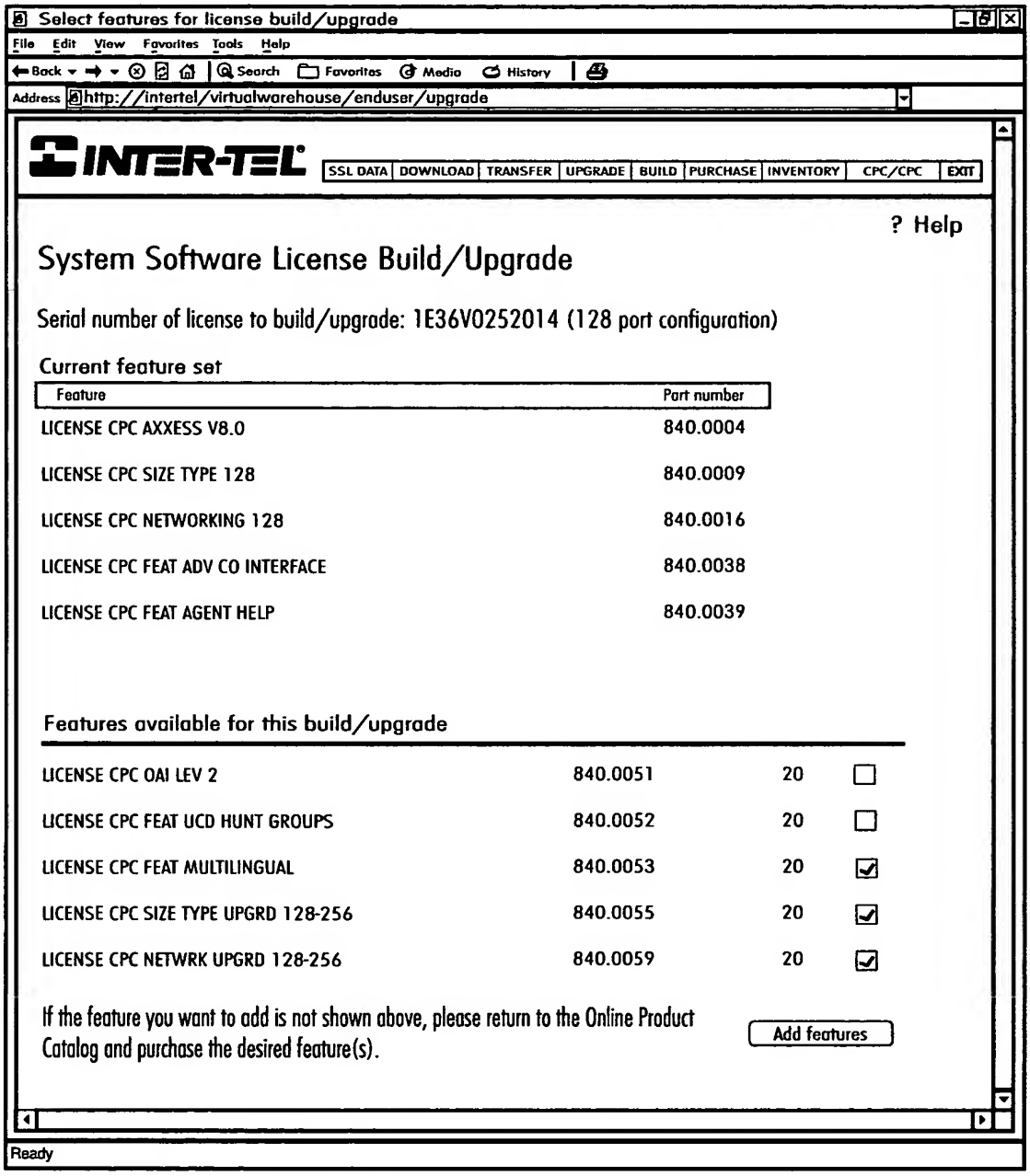

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Fig. 12

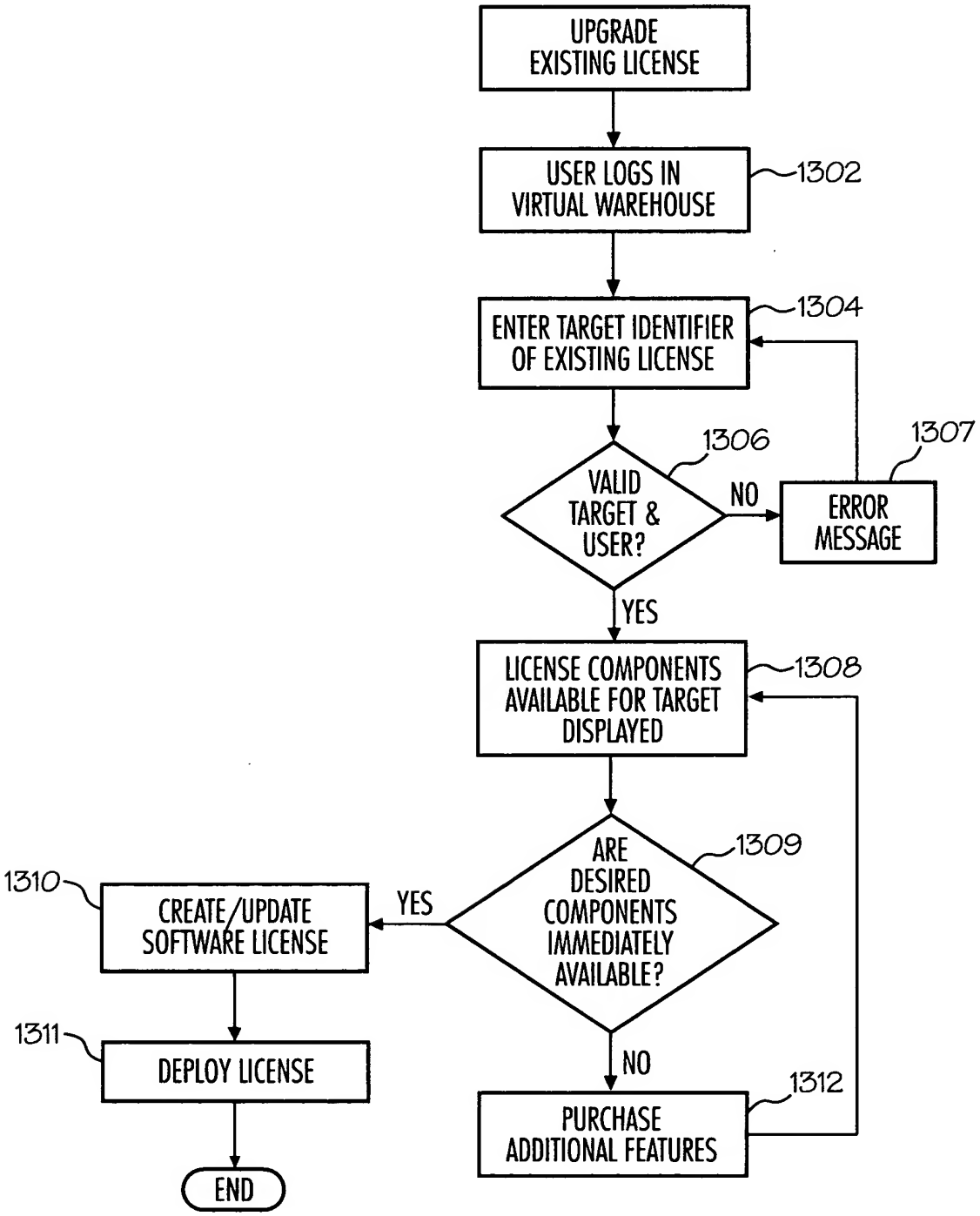
UPGRADE EXISTING LICENSE
USER LOGS IN VIRTUAL WAREHOUSE
1302
ENTER TARGET IDENTIFIER OF EXISTING LICENSE
1304
VALID TARGET & USER?
1306
NO
ERROR MESSAGE
1307
YES
LICENSE COMPONENTS AVAILABLE FOR TARGET DISPLAYED
1308
ARE DESIRED COMPONENTS IMMEDIATELY AVAILABLE?
1309
YES
CREATE/UPDATE SOFTWARE LICENSE
1310
DEPLOY LICENSE
1311
END
NO
PURCHASE ADDITIONAL FEATURES
1312

Fig. 13

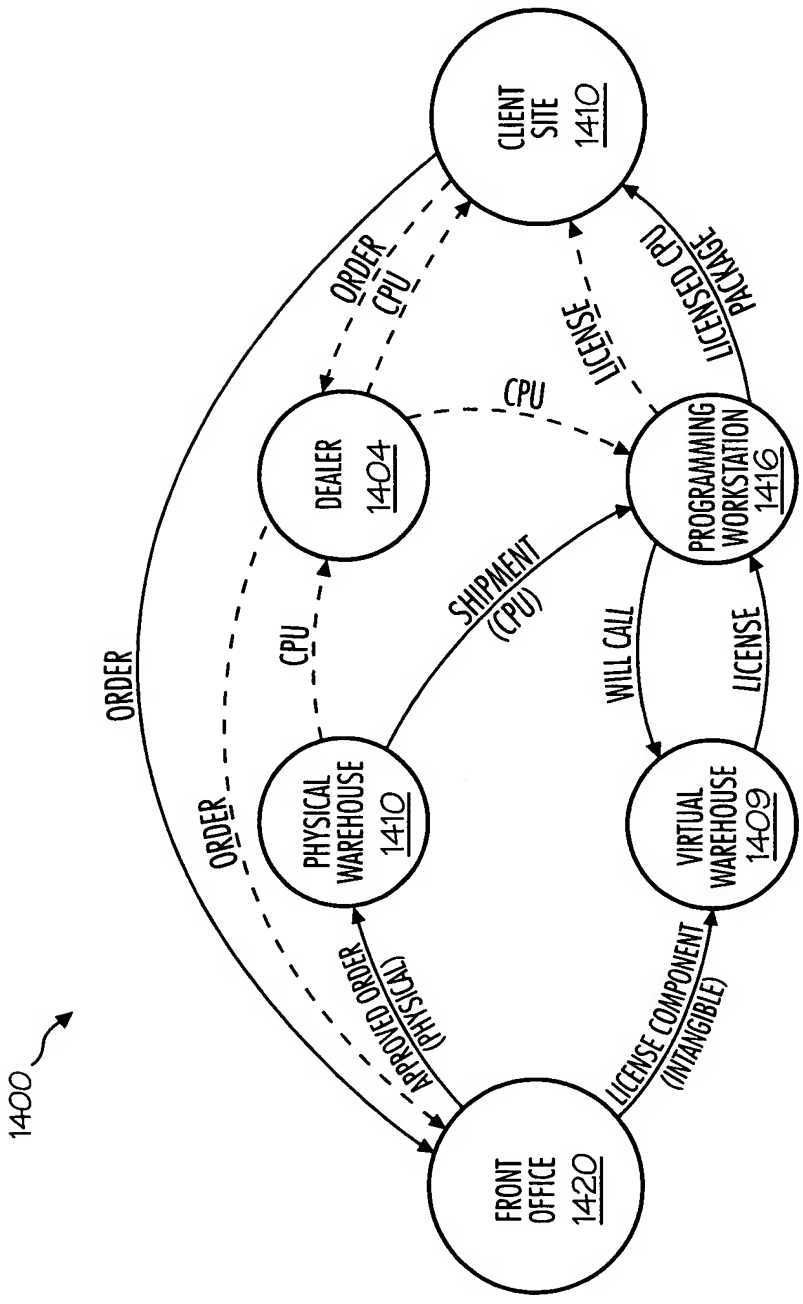
1400
CLIENT SITE 1410
DEALER 1404
PROGRAMMING WORKSTATION 1416
PHYSICAL WAREHOUSE 1410
VIRTUAL WAREHOUSE 1409
FRONT OFFICE 1420
ORDER
CPU
LICENSE
LICENSED CPU PACKAGE
CPU
ORDER
CPU
SHIPMENT (CPU)
WILL CALL
LICENSE
ORDER
APPROVED ORDER (PHYSICAL)
LICENSE COMPONENT (INTANGIBLE)

Fig. 14

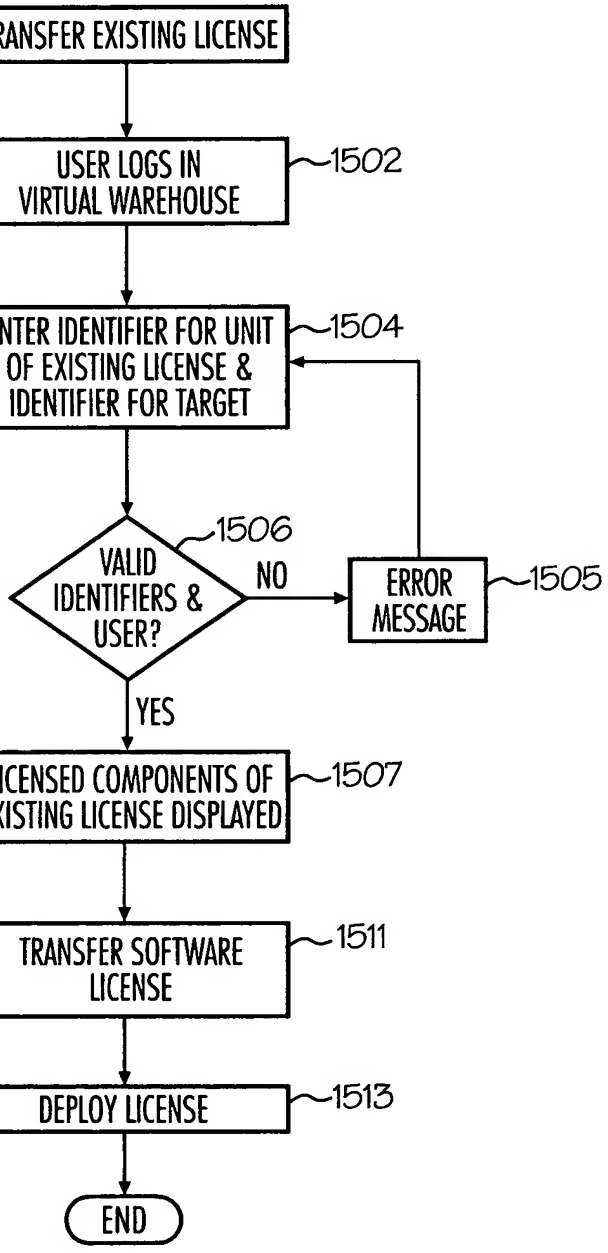
TRANSFER EXISTING LICENSE
USER LOGS IN VIRTUAL WAREHOUSE
1502
ENTER IDENTIFIER FOR UNIT OF EXISTING LICENSE & IDENTIFIER FOR TARGET
1504
VALID IDENTIFIERS & USER?
1506
NO
ERROR MESSAGE
1505
YES
LICENSED COMPONENTS OF EXISTING LICENSE DISPLAYED
1507
TRANSFER SOFTWARE LICENSE
1511
DEPLOY LICENSE
1513
END

Fig. 15